

Chromosome Observations on Tropical Ants from Western Malaysia. II

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Imai and Kubota went to West Malaysia in 1982 and 1983 for a karyological survey of tropical ants. The project was performed in cooperation with H. S. Yong and Y. P. Tho. The identification of species was made by M. Kubota and W. L. Brown, though it remains unsettled yet in some ant groups, e.g., *Pheidole* and *Camponotus*. We already described chromosomes of 73 ant species collected in 1982 (Ann. Rep. Natl. Inst. Genetics, **32**: 71–73). The present paper reports chromosomes of 86 species (39 genera, 6 subfamilies) collected in 1983. A total of 119 colonies, labelled as HI83-(1-119), were collected from the following localities: campus of Forest Research Institute (HI83-1-42), Jeram Toi (HI83-43-46, 49), Pasoh Forest (HI83-47-74, 103), Gombak Station of the University of Malaya (HI83-76-83, 96, 109-115), Genting Highlands (HI83-84-95), Ulu Gombak

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Table 1. Chromosome numbers of Malaysian ants. II

Taxa (Colony number)	Chrom. number (n) 2n	Taxa (Colony number)	Chrom. number (n) 2n
PONERINAE		DORYLINAE	
<i>Platythyrea quadridenta</i> (HI83-22, 50)	(9) 18	<i>Aenictus laeviceps?</i> (HI83-103)	22
<i>P. tricuspidata</i> (HI83-116)	96	MYRMICINAE	
<i>Gnamptogenys menadensis</i> * (HI83-61)	42	<i>Aphaenogaster beccarii</i> * (HI83-55)	30
<i>G. binghami</i> (HI83-21)	(22)	<i>Pheidole sp. 1*</i> (HI83-101)	(10)
<i>Leptogenys diminuta</i> = <i>sp. 1*</i> (HI83-14, 15, 86)	38	<i>P. sp. 7</i> (HI83-7)	16
<i>L. myops</i> = <i>sp. 2*</i> (HI83-113)	(24)	<i>P. sp. 11</i> (HI83-53)	22
<i>L. sp. 3</i> (HI83-109)	48	<i>P. sp. 12</i> (HI83-44)	(10) 20
<i>L. iridescens</i> (HI83-47, 65)	46	<i>P. sp. 13</i> (HI83-102)	38
<i>L. borneensis</i> (HI83-66)	46	<i>P. sp. 14</i> (HI83-32)	20
<i>Diacamma sp. 1*</i> (HI83-16, 99, 106)	44	<i>P. sp. 15</i> (HI83-6)	20
<i>Amblyopone reclinata</i> (HI83-20)	38	<i>P. sp. 16</i> (HI83-104)	(9) 18
<i>Pachycondyla</i> "n. sp. A of Brown" = <i>Mesoponera sp. 1</i> (HI83-63, 71)	(18) 36	<i>P. sp. 17</i> (HI83-27)	20, 21
<i>P. leeuwenhoekii</i> (HI83-3, 11, 12)	(8) 16	Translocation polymorphism	
<i>P. rubra</i> *= <i>Mesoponera sp. 2</i> (HI83-3, 11, 12)	38, 40	<i>P. sp. 18</i> (HI83-8, 88)	20
Robertsonian polymorphism		<i>P. sp. 19</i> (HI83-9, 90)	20
<i>P. tridentata</i> (HI83-51)	28	<i>P. sp. 20</i> (HI83-58, 60, 108)	(18) 36
<i>Ponera japonica</i> (HI83-94)	12	<i>P. megacephala</i> (HI83-82)	20
<i>Hypoponera pruinosa</i> (HI83-110)	(12) 24	<i>Crematogaster sp. 1*</i> (HI83-59)	26
<i>H. sp. 2</i> (HI83-35)	38	<i>C. sp. 4*</i> (HI83-5, 49)	24
<i>H. sp. 3</i> (HI83-45)	36	<i>C. sp. 5</i> (HI83-4)	26
<i>Cryptopone testacea</i> (HI83-54)	(9) 18	<i>C. sp. 6</i> (HI83-72)	26
<i>Odontomachus similis</i> = <i>sp. 1*</i> (HI83-17, 18)	44	<i>Monomorium sp. 2*</i> (HI83-85)	22
<i>O. rixosus</i> = <i>sp. 2*</i> (HI83-38)	(15) 30	<i>M. sp. 3</i> (HI83-96)	(11) 22
<i>O. latidens</i> (HI83-25)	(15)	<i>M. sp. 4</i> (HI83-105)	(11)
PSEUDOMYRMECINAE		<i>Lophomyrmex bedoti</i> (HI83-73, 75)	38
<i>Tetraponera sp. 2</i> (HI83-97)	42	<i>Vollenhovia sp. 1</i> (HI83-46, 69)	49, 50
		Robertsonian polymorphism	
		<i>V. sp. 2</i> (HI83-93, 95)	33, 34
		Robertsonian polymorphism	
		<i>Acanthomyrmex sp. 3</i> (HI83-10, 98, 114)	(11) 22
		<i>Pristomyrmex sp. 2</i> (HI83-77)	(14)

Table 1. Continued

Taxa (Colony number)	Chrom. number (n) 2n	Taxa (Colony number)	Chrom. number (ff) 2n
<i>Lordomyrma</i> sp. 1 (HI83-37)	(11) 22	<i>Plagiolepis</i> sp. 1 (HI83-62)	18
<i>Myrmecaria</i> sp. 2* (HI83-87)	44	<i>Pseudolasius</i> sp. 1	(8)
<i>M. sp.</i> 4 (HI83-43)	(23) 46	(HI83-57, 70)	
<i>Tetramorium pnyxis</i> (HI83-56)	20	<i>P. sp.</i> 2 (HI83-67, 68)	(15, 17,
<i>T. eleates</i> (HI83-30)	28	B-chromosome	19) 30
<i>T. senec</i> ? (HI83-29)	20	polymorphism	
<i>Smithistruma taipingensis</i> *	(12) 24	<i>Camponotus festinus</i> *	(19) 38
(HI83-111)		(HI83-24, 52)	
<i>Strumigenys godeffroyi</i>	40	<i>C. sp.</i> 2* (HI83-19)	40
(HI83-31)		<i>C. sp.</i> 7 (HI83-107)	(20)
<i>Dacotinops concinna</i>	16	<i>C. sp.</i> 8 (HI83-23)	38, 39
(HI83-115)		Robertsonian polymorphism	
<i>Eurhopalothrix n. sp.</i>	18	<i>C. sp.</i> 9 (HI83-80, 81)	40
(<i>procera</i> group)		<i>C. sp.</i> 10 (HI83-41, 42)	(13, 14)
Brown (in press)		Robertsonian polymorphism	
DOLICHODERINAE		<i>C. sp.</i> 11 (HI83-84)	52
<i>Dolichoderus bituberculatus</i> *	30, 31,	<i>C. sp.</i> 12 (HI83-100)	18
(HI83-83) B-chromosome	32, 33	<i>C. sp.</i> 13 (HI83-78)	18
polymorphism		<i>Polyrhachis illaudata</i>	(18)
<i>Iridomyrmex cordatus</i>	16	(HI83-36)	
(HI83-74)		<i>P. hector</i> (HI83-76, 112)	(21) 42
<i>Technomyrmex sp.</i> 1*	30	<i>P. rastellata</i> (HI83-39, 40, 79)	42
(HI83-118)		<i>Echinopla sp.</i> 1 (HI83-48, 64)	(12) 24
FORMICINAE		<i>Paratrechina sp.</i> 4* (HI83-34)	16
<i>Anoplolepis longipes</i> *	34	<i>P. sp.</i> 6 (HI83-92)	30
(HI83-1, 2, 117)		<i>P. sp.</i> 7 (HI83-33)	16
<i>Acropyga acutiventris</i> *	28, 29	<i>Prenolepis jerdoni</i> *	(16, 20,
(HI83-28, 119)		(HI83-26, 91)	25, 27)
Robertsonian polymorphism		B-chromosome	30, 31,
		polymorphism	32, 34

N.B. The species with asterisks were observed also in the survey of 1982.

(HI83-97-108), and Templer Park (HI83-116-119). Among 119 colonies, we were able to observe chromosome spreads in all samples except HI83-13, 46, 57, 63, 79, 89, and 119. The results are summarized in Table 1. In addition, two species collected at Sungey Menyala Reserve, Negeri Sembilan, in 1981 by Brown and Pong (*Pachycondyla leeuwenhoekei* and *Eurhopalothrix*

n. sp.), were karyotyped separately by Brown; these have been added to Table 1.